

REEPRODUCE

Dismantling and Recycling Rare Earth Elements from End-of-life Products for the European Green Transition

EUROPEAN RARE EARTHS' RECYCLING VALUE CHAIN

The aim of the REEPRODUCE project is to set up for the first time a sustainable and complete European REEs recycling value chain at industrial scale, able to produce REEs from end-of-life (EoL) products at competitive cost and with environmentally friendly technologies for the green strategic sectors.

OBJECTIVES

-  Optimisation of innovative technologies for sorting, dismantling and recovery of REEs from EoL products at competitive cost.
-  Engineering, construction, operation and validation of the REEPRODUCE pilots in different industrial environments across Europe.
-  Demonstration of the environmental, social, and economic sustainability of the REEPRODUCE process in the recycling of REEs.
-  Communication of activities and dissemination of the project's results towards society, scientific and industry communities.
-  Maximising the exploitation of the technologies towards market uptake in Europe.

IMPACT

The project's innovative results will generate technological, economical and societal benefits:

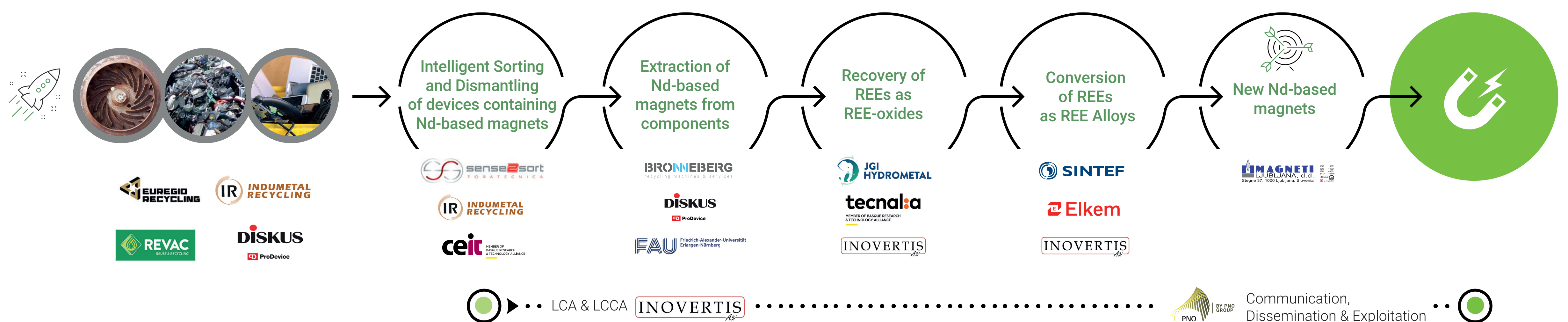
- Setting up a full REEs recycling value chain at industrial scale in Europe for the first time.
- Producing REEs in Europe at 25% reduction in total costs compared to current production.
- Significant reduction in the environmental impact >70%, and better social sustainable performance compared to current production practices (>50%).
- Contribute to the ambitious energy and climate targets for 2030.
- Resilient, sustainable and secure REEs value chain for European ecosystems.

THE REEPRODUCE SOLUTION

The REEPRODUCE project will set the foundations for a more resilient and secure raw materials value chain in Europe aiming to solve the technological, economical, and societal challenges we are facing today. In addition, this will strengthen the leading role of European REEs industries.



THE REEPRODUCE CONCEPT



CONSORTIUM



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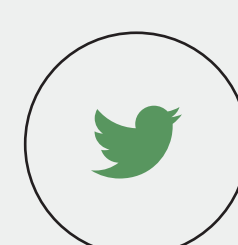
PROJECT COORDINATOR

SINTEF

Dr. Ana María MARTÍNEZ

anamaria.martinez@sintef.no

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